

University of South Carolina — May 2024 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	Applied Research & Evaluation (CARE)				
		Workman, Lauren	AccessHealth & Healthy People Healthy Carolinas Evaluation 2024	SC Hospital Association Foundation (SCHA)	44,846
	Communication Sci & Disorders				
		Bryant, Taylor	(PI - Taylor Berrier) Emotion Regulation in Children with Developmental Language Disorder	National Institute on Deafness and Other Communication Disorders (NIDCD)/NIH	146,922
	Environmental Health Sciences				
		Porter, Dwayne	A Proposal to Scale from a Regional to a National Webcam Coastal Observation System (WebCOOS)	Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA	26,834
	Exercise Science				
		Beets, Michael	Contextual Determinants of Accelerated Weight Gain During Summer Among Preschoolers from Low-income Households	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH	2,553,276
		Silfies, Sheri	Characterizing the Influences of Multi-Site Musculoskeletal Pain among Service Members and Veterans Referred to Physical Therapy for Low Back Pain - Sub-contract with the Henry M. Jackson Foundation	Henry M. Jackson Foundation/USAMRAA/DOD	99,541
	Health Prom., Educ. & Behavior				
		Rudisill, Anne	MOMs in Control of Diabetes in Pregnancy	Prisma Health Upstae	8,139
		Tam, Cheuk	Theory-based social media intervention for non-medical use of prescription opioids in young adults	National Institute on Drug Abuse (NIDA)/NIH	777,368
		Thrasher, James	Communicating about Nicotine and Differential Risks of Tobacco Products in Priority Populations	Georgia State University/NIH	77,477
	PASOS				
		Lubov, Mayra	PASOs Sisters of Charity - Breaking the Cycle 2024-2025	Sisters of Charity Foundation of South Carolina	25,000
College of Arts and Sciences					
	Archaeology & Anthropology				
		King, Adam	US Forest Service Curation and Prescribed Burn Graduate Research Assistantship	US Forest Service	33,016

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	Chemistry & Biochemistry				
		<i>Lu, Qun</i>	<i>Homeostatic Reset as a New Therapeutic Paradigm for Slow Progression Diseases</i>	<i>National Institute of General Medical Sciences (NIGMS)/NIH</i>	1,865,363
		<i>Outten, Franklin</i>	<i>Unraveling the novel functions of E. coli GrxD and its BolA and IbaG partners in Fe-S cluster and cell envelope biogenesis</i>	<i>National Science Foundation (NSF)</i>	1,117,707
	Criminology & Criminal Justice				
		<i>Adams, Ian</i>	<i>2025 Interdisciplinary Policing Workshop</i>	<i>Arnold Ventures LLC (Laura and John Arnold Foundation)</i>	63,628
	Languages, Literatures, & Cult.				
		<i>Wright, Parrish</i>	<i>Mythology, Identity, and Diplomacy in Pre-Roman Italy</i>	<i>Loeb Classical Library Foundation</i>	35,000
	Mathematics				
		<i>Thorne, Frank</i>	<i>Number Theory Meetings in the Southeast</i>	<i>Maryland Procurement Office/ONR/NSA</i>	22,222
	Physics & Astronomy				
		<i>Kunchur, Milind</i>	<i>Psychoacoustic study of audio speaker cables</i>	<i>Wireworld by David Salz, Inc.</i>	39,999
	Psychology				
		<i>Schatz, Jeffrey</i>	<i>Professional Services Agreement: 17553 LRRF - Psychology Services for Pediatric Hematology Oncology</i>	<i>Prisma Health - Midlands</i>	22,266
	School of Earth, Ocean & Env.				
		<i>Bizimis, Michael</i>	<i>Collaborative Research: Investigation of Volcanism and Tectonics in the Bight Transform Region (55.5°N-57.0°N, Mid-Atlantic Ridge)</i>	<i>National Science Foundation (NSF)</i>	390,747
	Theatre and Dance				
		<i>Milling, Stephanie</i>	<i>Contemporary Dance Pedagogy Institute</i>	<i>SC Department of Education (SCDE)</i>	35,000
College of Education					
	Educational & Developmental Science				
		<i>Plotner, Tony</i>	<i>South Carolina Pathways Project Evaluation</i>	<i>SC Department of Education (SCDE)/USDE</i>	96,963
College of Engineering & Comp.					
	Chemical Engineering				
		<i>Heyden, Andreas</i>	<i>Collaborative Research: Resolving the Contributions of Lattice Oxygen, Dioxygen, Acid Sites, Base Sites, and Redox Sites during the Oxidative Scission of Ketones on Metal Oxides</i>	<i>National Science Foundation (NSF)</i>	300,000
		<i>Meekins, Benjamin</i>	<i>Nuvera Fuel Cells - Bryan Giard - April 2024 (2 samples)</i>	<i>Nuvera Fuel Cells, LLC</i>	1,700

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		<i>Sadati, Monirosadat</i>	<i>Enhancing Structural Battery Efficiency through Microstructural Tuning of Solid Polymer Electrolytes</i>	<i>College of Charleston/SC Space Grant Consortium/NASA EPSCoR</i>	20,000
		<i>Taheri-Qazvini, Nader</i>	<i>Empowering URM Undergraduate Students in MXene-based Advanced Materials Research</i>	<i>SC EPSCoR/Clemson University</i>	15,000
			<i>Engineering Resilient Iontronics: MXene/Ionic Polymer Assemblies for Advanced Ionic Device Durability and Adaptability</i>	<i>College of Charleston/SC Space Grant Consortium/NASA EPSCoR</i>	15,000
		<i>White, Ralph</i>	<i>Investigation of electrochemical performance for Na-ion Structural Batteries</i>	<i>College of Charleston/SC Space Grant/NASA EPSCOR</i>	23,500
	Computer Science & Engineering				
		<i>Mohammadizand, Ramt</i>	<i>SHF: Small: Cross-Layer Design Automation for In-Memory Analog Computing</i>	<i>National Science Foundation (NSF)</i>	588,801
	Mechanical Engineering				
		<i>Barazanchy, Darun</i>	<i>Application to fund Farnborough International Air Show attendance</i>	<i>SC Department of Commerce (SC DOC)</i>	5,500
		<i>Chen, Fanglin</i>	<i>Producing Oxygen from Martian Atmosphere to Support NASA's Manned Mission to Mars</i>	<i>College of Charleston/SC Space Grant Consortium/NASA</i>	15,000
			<i>Developing Advanced Materials for NASA's Mars Oxygen Module</i>	<i>College of Charleston/SCSGC/NASA</i>	20,000
		<i>Lee, Junsoo</i>	<i>Implicit Discretization for Optimal Convex Covariance Control</i>	<i>College of Charleston/SC Space Grant Consortium/NASA EPSCoR</i>	20,000
		<i>Wang, Yi</i>	<i>Precision Processing of Autonomous Maritime Perception System Data - Phase III</i>	<i>Office of Naval Research (ONR)/DOD</i>	7,040,000
College of Social Work					
	Social Work - Dean's Office				
		<i>Doering-white, John</i>	<i>Anticipation of Humanitarian Climate Futures Along the Central American Migrant Trail through Mexico</i>	<i>Wenner-Gren Foundation</i>	24,750
School of Law					
	Law - Dean's Office				
		<i>Park, Bryant</i>	<i>SC Bar Foundation Public Interest Fellowship</i>	<i>South Carolina Bar Foundation</i>	10,000

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School of Medicine					
	MDC PA Program				
		Dixon, Rita	<i>Empowering Wellness: Establishing a Self-Monitored Blood Pressure Clinic for Employee Health</i>	nccPA Health Foundation	2,500
	Path, Microbio. & Immunology				
		Velazquez, Kandy	<i>The role of TGFβ2 and Macrophages in Cancer Cachexia</i>	National Cancer Institute (NCI)/NIH	2,628,525
	Pharm., Physiology & Neuroscience				
		Reagan, Lawrence	<i>IPA for Dr. Jim Fadel</i>	WJB Dorn VA Medical Center/VA	50,848
			<i>IPA for Dr. Fiona Hollis</i>	WJB Dorn VA Medical Center/VA	46,758
			<i>IPA for Joseph McQuail</i>	WJB Dorn VA Medical Center/VA	45,132
			<i>IPA for Dr. Marlene Wilson</i>	WJB Dorn VA Medical Center/VA	50,572
School of Medicine (Grvl)					
	Medicine Greenville				
		Quesnelle, Kelly	<i>Assessment methods and curricular integration of professional and interpersonal skills in undergraduate medical education</i>	International Association of Medical Science Educators (IAMSE)	2,500
School of Music					
	Music				
		Bunny, Michael	<i>(PI - Bunny, Michael) USC Guitar Spheres</i>	SC Research Foundation (SCRF)/South Carolina Arts Commission	2,500
University of SC Aiken					
	AK Biology & Geology				
		Gibson, Kelly Ann	<i>Collaborative Research: Documenting Variations in the Southern Hemisphere Influence on the Western Pacific Warm Pool Thermocline Since 1.5 Ma</i>	National Science Foundation (NSF)	186,352
	AK Mathematical Sciences				
		Paul, Titan	<i>SAN Program - Effect of Synthesis Parameter on Thermophysical Properties of Ionic Liquids (ILs) based Nanofluids for Solar Thermal Applications</i>	SC EPSCoR/Clemson/CHE	14,921
University of SC Beaufort					
	BFT Natural Sciences				
		Pettay, Daniel	<i>Understanding nutrient cycling and its influence on phytoplankton abundance in the PRS</i>	Spring Island Trust and LowCountry Institute	10,000
University of SC Upstate					
	UPS Academic Affairs Admin				

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		<i>Steinke, Pamela</i>	<i>Movement 2030</i>	<i>USC Upstate Foundation (UF)/Spartanburg Academic Movement (SAM)</i>	1,173,049
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